



Data Paper

# Sample checklist of Gastropoda and Bivalvia in Cham Islands, Vietnam

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## Abstract

## Background

Cham Islands (Cu Lao Cham) is a group of 8 small islands in the Quang Nam province, Central Vietnam. There is only one study that mentioned the diversity of marine molluscs in this area. However, the data on species composition have not been digitised and not stored or shared for other purposes. Our paper aims to share the checklist of marine mollusc species (Bivalvia and Gastropoda) species that we collected from the littoral zone of Cham Islands in May 2017. This is the first digitised and online data of marine molluscs in Vietnam. It is very important for researchers in various fields such as the structure and function of ecology and biodiversity monitoring.

## New information

This study provides a checklist of the marine bivalves and snails in the Cham Islands of Vietnam. Moreover, this first widely shared data of biodiversity in Vietnam can trigger biodiversity data papers in this data-poor country.

The data of this study will be important inputs for better understanding biodiversity on the Cham Islands and Vietnam as well as for forming the basis for monitoring, exploitation and conservation of biodiversity in this area.

In total, 145 taxa were recorded, 46 bivalve taxa and 99 snail taxa, from which 128 were identified to the species level and 17 were identified to the genus level. There are 116 new species records for the Cham Islands.

The specimens are currently deposited in the Institute of Ecology and Biological Resources (IEBR), Vietnam Academy of Science and Technology (VAST).

## Keywords

Sample checklist, Marine mollusc, Cham Islands, Vietnam

## Introduction

Cham Islands forms a part of Cu Lao Cham Marine Protected Area and has been recognised by UNESCO as a World Biosphere Reserve (Cu Lao Cham Marine Park) in 2009. There is only one study on macrobenthic fauna on the coral reefs that also mentioned marine molluscs in the Cu Lao Cham Sea (Tuyen 2013). However, its data on the species checklist was not digitised or stored in any database. Therefore, it was not widely used by other scientists. Our aim here is to show the list of snails (Gastropod) and bivalves (Bivalvia) that we found during our survey in May 2017 from Cham Islands. This checklist is the first formal biodiversity data of this group of islands of Vietnam.

## General description

**Purpose:** This study aims:

1. to provide the list of snail and bivalve species distributed in Cham Islands;
2. to store and register the specimens for future studies.

The survey was conducted in May 2017 in the littoral zones of Cham Islands to the depths between 5 and 10 metres.

**Additional information:** This is a database of the scientific names and the coordinates of collected specimens.



## Project description

**Title:** Sample checklist of Gastropoda and Bivalvia in Cham Islands, Vietnam

**Personnel:** The researchers involved in this project were Dr. Do Van Tu (sample collection, taxonomic identification, data management), Dr. Le Hung Anh (sample collection) and Dr. Tran Anh Tuan (map drawing) from the Institute of Ecology and Biological Resources and Dr. Luu The Anh (sample collection) from the Institute of Geography. Both institutes are under the Vietnam Academy of Science and Technology. Moreover, Dr. Takenori Sasaki from the University Museum, The University of Tokyo, helped to verify the identification of all species.

**Study area description:** Cham Archipelago consists of one large island surrounded by seven small islands covering a sea area of 15 square kilometres and it is located in Central Vietnam, 16 kilometres from the coast and 19 kilometres to the east of the ancient Hoi An town, Quang Nam province (source: <https://en.wikipedia.org>). The names of islands are the Hon Lao (Pearl), Hon Dai (Long), Hon Mo (Tomb), Hon Kho me (Big Dry), Hon Kho con (Small Dry), Hon La (Leaf), Hon Tai (Ear) and Hon Ong (East Wind). The coral reefs and seagrass beds are widely distributed in the shallow waters of Cu Lao Cham. The researchers have recorded 261 species of Scleractinian coral, 15 species of soft coral, 3 species of fire coral (Milleporidae), 1 species of blue coral (Helioporidae) and 2 species of horny coral (Antipatharia) in this area (Ngoc 2018).

We only surveyed around the large island (Hon Lao) and three other small islands (Hon Tai, Hon La, Hon Dai) (Fig. 1). The sampling sites were sandy beaches, rocky shores and coral reefs. The collection of specimens was approved by Management Board of Cu Lao Cham Marine Protected Area.

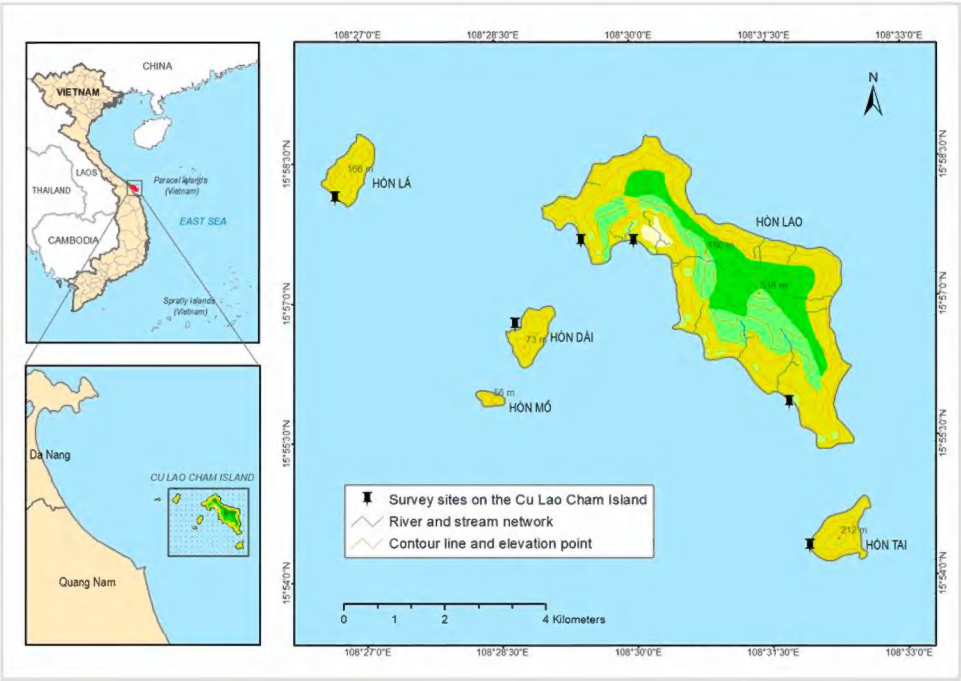


Figure 1. [doi](#)

A map of the study area, the sampling sites are indicated.



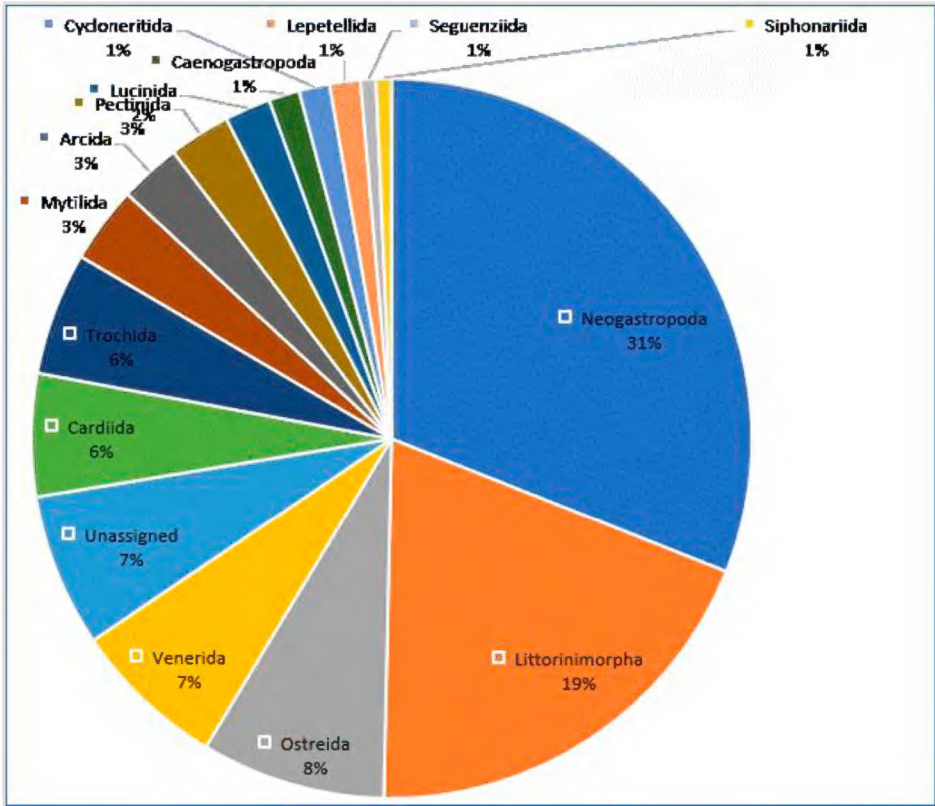


Figure 2. [doi](#)  
Taxonomic coverage (by taxonomic order).

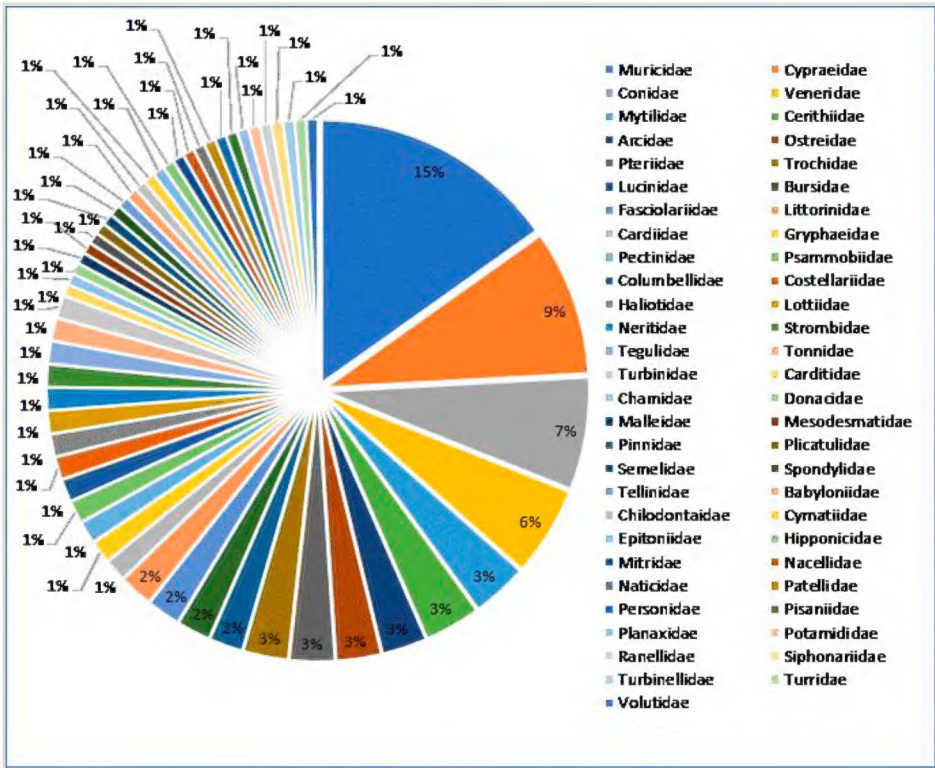


Figure 3. [doi](#)  
Taxonomic coverage (by taxonomic family).

**Design description:** This project is designed to obtain as many marine mollusc species as possible in the littoral zone of the Cham Islands.

**Funding:** The project was funded by a grant from the Ministry of Science and Technology of Vietnam, Project code is ĐTĐL.XH-02/16.

## Sampling methods

**Study extent:** The sampling sites were located in the littoral zone of Cham Islands (Fig. 1), including three sites (Bai Huong (Fig. 4), Bai Ong (Fig. 5), Bai Bac (Fig. 6)) at the large island (Hon Lao) and three sites at three other small islands (Hon Tai (Figs 7, 8), Hon La (Fig. 9), Hon Dai (Fig. 10)).



Figure 4. [doi](#)

Bai Huong, Cu Lao Cham.

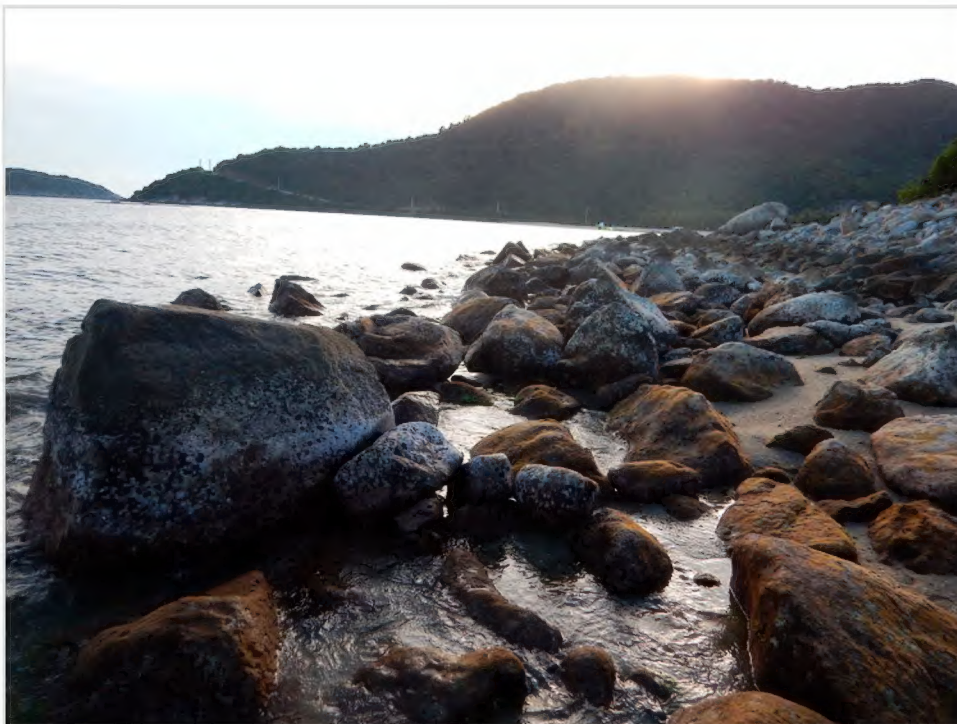


Figure 5. [doi](#)

Bai Ong, Cu Lao Cham.





Figure 6. [doi](#)  
Bai Bac, Cu Lao Cham.



Figure 7. [doi](#)  
Hon Tai, Cu Lao Cham.



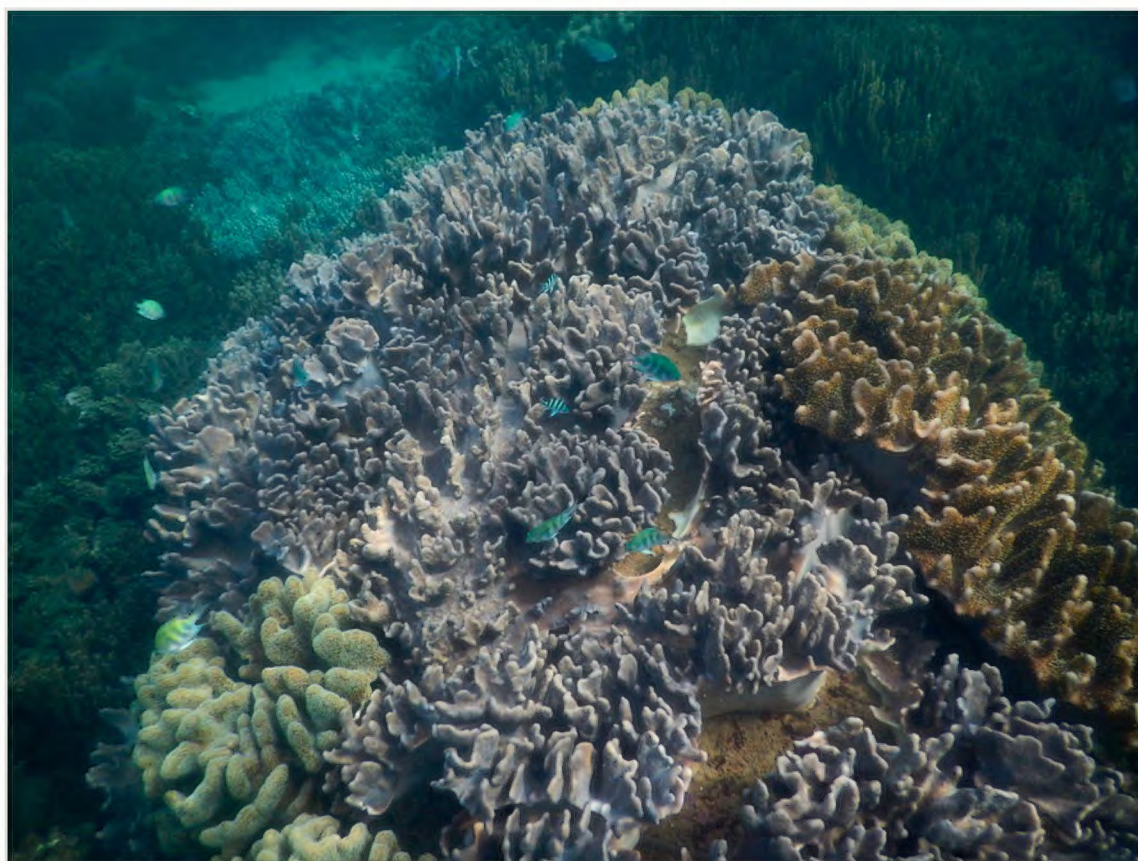


Figure 8. [doi](#)

Coral reef in Hon Tai, Cu Lao Cham.



Figure 9. [doi](#)

Hon La, Cu Lao Cham.



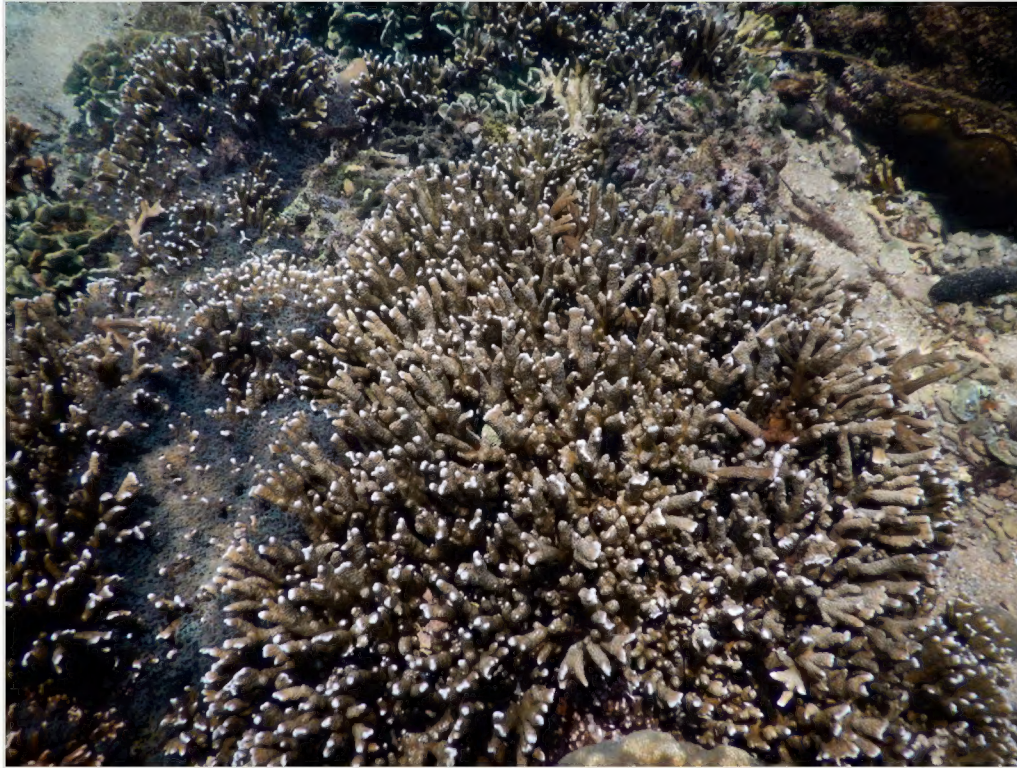


Figure 10. [doi](#)

Coral reef in Hon Dai, Cu Lao Cham.

**Sampling description:** Marine molluscs (snails and bivalves) were collected by hand or scoop at the low tide in the different benthic habitats, including the sandy beaches, rocky shores and coral reefs by scuba divers. The sediments were sieved through a 1-mm mesh; the sieve residue was fixed in 95% Ethanol. In the laboratory, the samples were sorted and identified, where possible, to the species level based on taxonomic documents (Abbott and Dance 1986, Carpenter and Niem 1998, Okutani and (Ed.) 2017, Thach 2005, Thach 2007, Thach 2012, Thach 2016).

**Quality control:** The scientific names in this paper are based on the identification by experienced experts in the field of the taxonomy of marine molluscs, namely, Dr. Takenori Sasaki from the University Museum, the University of Tokyo and Dr. Do Van Tu from Institute of Ecology and Biological Resources. All taxon names were checked against the Taxon Match tool in the World Register of Marine Species (WoRMS) in order to standardise and correct them, if necessary (<http://www.marinespecies.org/aphia.php?p=match>).

**Step description:** NA

## Geographic coverage

**Description:** The survey conducted in the Cham Islands including the large island (Hon La) and three other small islands (Hon Tai, Hon Dai, Hon La). Cham Islands belongs to Hoi An city, Quang Nam province. This island is located in Central Vietnam.

**Coordinates:** 15.896 and 15.984 Latitude; 108.437 and 108.55 Longitude.



## Taxonomic coverage

**Description:** We recorded 145 taxa of bivalves and snails (Table 1, Suppl. material 1). Of these, 116 species have been recorded for the first time in the Cu Lao Cham Island. Gastropoda is dominant with 35 families and 99 species while bivalves were represented by 20 families and 46 species. At the order level, the following were classified into Bivalvia: Arcida (4 species), Cardiida (8 species), Lucinida (3 species), Mytilida (5 species), Ostreida (12 species), Pectinida (4 species) and Venerida (10 species), Gastropoda: Caenogastropoda (2 species), Cycloneritida (2 species), Lepetellida (2 species), Littorinimorpha (28 species), Neogastropoda (45 species), Seguenziida (1 species), Siphonariida (1 species), Trochida (8 species) and unassigned (10 species) (Fig. 2.) The families with the highest species richness were Muricidae (22 species), Cypraeidae (13 species), Conidae (10 species) and Veneridae (8 species). The rest of the families were mostly represented by a single species (Fig. 3). Photos of 40 taxa were presented in Suppl. material 2.

Table 1.

The list of Bivalvia and Gastropod recorded in Cham Island in May 2017 (the species were presented in family order).

| SCIENTIFIC NAME                                     | Family     | Specimen number | Locality Name | Longitude | Latitude  | Date      | New Record |
|---|------------|-----------------|---------------|-----------|-----------|-----------|------------|
| <i>Arca avellana</i> Lamarck, 1819                  | Arcidae    | 1               | Bai Huong     | 108.52849 | 15.930946 | 2017/5/10 | +          |
| <i>Arca ventricosa</i> Lamarck, 1819                | Arcidae    | 2               | Bai Huong     | 108.52849 | 15.930946 | 2017/5/10 | +          |
| <i>Barbatia amygdalumtostum</i> (Röding, 1798)      | Arcidae    | 3               | Hon La        | 108.44516 | 15.96868  | 2017/5/10 | +          |
| <i>Barbatia foliata</i> (Forsskål in Niebuhr, 1775) | Arcidae    | 4               | Hon La        | 108.44516 | 15.96868  | 2017/5/10 |            |
| <i>Tridacna crocea</i> Lamarck, 1819                | Cardiidae  | 20              | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 |            |
| <i>Vasticardium angulatum</i> (Lamarck, 1819)       | Cardiidae  | 21              | Bai Ong       | 108.50021 | 15.960193 | 2017/5/11 | +          |
| <i>Cardita variegata</i> Bruguière, 1792            | Carditidae | 19              | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 |            |
| <i>Donax cuneatus</i> Linnaeus, 1758                | Donacidae  | 18              | Bai Huong     | 108.52849 | 15.930946 | 2017/5/10 | +          |



| SCIENTIFIC NAME  | Family       | Specimen number | Locality Name | Longitude | Latitude  | Date      | New Record |
|--|--------------|-----------------|---------------|-----------|-----------|-----------|------------|
| <i>Asaphis violascens</i><br>(Forsskal in Niebuhr, 1775) | Psammobiidae | 22              | Bai Bac       | 108.49052 | 15.96038  | 2017/5/12 | +          |
| <i>Gari elongata</i> (Lamarck, 1818)                     | Psammobiidae | 23              | Bai Ong       | 108.50021 | 15.960193 | 2017/5/11 | +          |
| <i>Semele zebuensis</i><br>(Hanley, 1843)                | Semelidae    | 25              | Bai Ong       | 108.50021 | 15.960193 | 2017/5/11 | +          |
| <i>Macalia bruguieri</i><br>(Hanley, 1844)               | Tellinidae   | 24              | Bai<br>Huong  | 108.52849 | 15.930946 | 2017/5/10 | +          |
| <i>Anodontia edentula</i><br>(Linnaeus, 1758)            | Lucinidae    | 26              | Bai Ong       | 108.50021 | 15.960193 | 2017/5/11 | +          |
| <i>Codakia tigerina</i><br>(Linnaeus, 1758)              | Lucinidae    | 27              | Bai Bac       | 108.49052 | 15.96038  | 2017/5/12 | +          |
| <i>Ctena bella</i> (Conrad, 1837)                        | Lucinidae    | 28              | Bai Bac       | 108.49052 | 15.96038  | 2017/5/12 | +          |
| <i>Brachidontes</i> sp.                                  | Mytilidae    | 5               | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 | +          |
| <i>Lithophaga</i> sp.                                    | Mytilidae    | 6               | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 | +          |
| <i>Perna viridis</i> (Linnaeus, 1758)                    | Mytilidae    | 7               | Bai<br>Huong  | 108.52849 | 15.930946 | 2017/5/10 | +          |
| <i>Septifer bilocularis</i><br>(Linnaeus, 1758)          | Mytilidae    | 8               | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 |            |
| <i>Septifer</i> sp.                                      | Mytilidae    | 9               | Bai Bac       | 108.49052 | 15.96038  | 2017/5/12 | +          |
| <i>Hyotissa inermis</i><br>(G.B.Sowerby II, 1871)        | Gryphaeidae  | 41              | Bai Ong       | 108.50021 | 15.960193 | 2017/5/11 |            |
| <i>Hyotissa</i> sp.                                      | Gryphaeidae  | 42              | Bai<br>Huong  | 108.52849 | 15.930946 | 2017/5/10 | +          |
| <i>Malleus albus</i> Lamarck, 1819                       | Malleidae    | 43              | Bai Ong       | 108.50021 | 15.960193 | 2017/5/11 |            |
| <i>Crassostrea gigas</i><br>(Thunberg, 1793)             | Ostreidae    | 37              | Bai<br>Huong  | 108.52849 | 15.930946 | 2017/5/10 | +          |
| <i>Dendostrea</i> sp.                                    | Ostreidae    | 38              | Bai<br>Huong  | 108.52849 | 15.930946 | 2017/5/10 | +          |
| <i>Saccostrea glomerata</i><br>(Gould, 1850)             | Ostreidae    | 39              | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 | +          |



| SCIENTIFIC NAME                                      | Family         | Specimen number | Locality Name | Longitude | Latitude  | Date      | New Record |
|--|----------------|-----------------|---------------|-----------|-----------|-----------|------------|
| <i>Saccostrea cf. mordax</i> (Gould, 1850)           | Ostreidae      | 40              | Bai Ong       | 108.50021 | 15.960193 | 2017/5/11 | +          |
| <i>Atrina</i> sp.                                    | Pinnidae       | 36              | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 | +          |
| <i>Amusium pleuronectes</i> (Linnaeus, 1758)         | Pectinidae     | 29              | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 | +          |
| <i>Mimachlamys sanguinea</i> (Linnaeus, 1758)        | Pectinidae     | 30              | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 | +          |
| <i>Plicatula australis</i> Lamarck, 1819             | Plicatulidae   | 31              | Bai Ong       | 108.50021 | 15.960193 | 2017/5/11 | +          |
| <i>Spondylus</i> sp.                                 | Spondylidae    | 32              | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 |            |
| <i>Isognomon</i> sp.                                 | Pteriidae      | 33              | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 | +          |
| <i>Pinctada martensii</i> (Dunker, 1872)             | Pteriidae      | 34              | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 |            |
| <i>Pinctada margaritifera</i> (Linnaeus, 1758)       | Pteriidae      | 143             | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 |            |
| <i>Pteria penguin</i> (Röding, 1798)                 | Pteriidae      | 35              | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 |            |
| <i>Chama limbula</i> Lamarck, 1819                   | Chamidae       | 45              | Bai Bac       | 108.49052 | 15.96038  | 2017/5/12 | +          |
| <i>Atactodea striata</i> (Gmelin, 1791)              | Mesodesmatidae | 44              | Bai Huong     | 108.52849 | 15.930946 | 2017/5/10 | +          |
| <i>Gafrarium dispar</i> (Holten, 1802)               | Veneridae      | 10              | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 | +          |
| <i>Gafrarium pectinatum</i> (Linnaeus, 1758)         | Veneridae      | 11              | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 | +          |
| <i>Globivenus toreuma</i> (Gould, 1850)              | Veneridae      | 12              | Bai Bac       | 108.49052 | 15.96038  | 2017/5/12 | +          |
| <i>Lioconcha fastigiata</i> (G. B. Sowerby II, 1851) | Veneridae      | 13              | Bai Ong       | 108.50021 | 15.960193 | 2017/5/11 | +          |
| <i>Paphia undulata</i> (Born, 1778)                  | Veneridae      | 14              | Bai Huong     | 108.52849 | 15.930946 | 2017/5/10 | +          |
| <i>Periglypta albocancellata</i> (M. Huber, 2010)    | Veneridae      | 15              | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 | +          |



| SCIENTIFIC NAME                                   | Family      | Specimen number | Locality Name | Longitude | Latitude  | Date      | New Record |
|---|-------------|-----------------|---------------|-----------|-----------|-----------|------------|
| <i>Periglypta reticulata</i><br>(Linnaeus, 1758)  | Veneridae   | 16              | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 |            |
| <i>Venerupis aspera</i><br>(Quoy & Gaimard, 1835) | Veneridae   | 17              | Bai Ong       | 108.50021 | 15.960193 | 2017/5/11 | +          |
| <i>Janthina umbilicata</i><br>d'Orbigny, 1841     | Epitoniidae | 46              | Bai<br>Huong  | 108.52849 | 15.930946 | 2017/5/10 | +          |
| <i>Planaxis sulcatus</i><br>(Born, 1778)          | Planaxidae  | 47              | Bai Ong       | 108.50021 | 15.960193 | 2017/5/11 | +          |
| <i>Nerita albicilla</i><br>Linnaeus, 1758         | Neritidae   | 51              | Bai Ong       | 108.50021 | 15.960193 | 2017/5/11 | +          |
| <i>Nerita balteata</i> Reeve,<br>1855             | Neritidae   | 52              | Bai Bac       | 108.49052 | 15.96038  | 2017/5/12 | +          |
| <i>Haliotis ovina</i> Gmelin,<br>1791             | Haliotidae  | 54              | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 |            |
| <i>Haliotis varia</i> Linnaeus,<br>1758           | Haliotidae  | 55              | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 |            |
| <i>Bufo naria rana</i><br>(Linnaeus, 1758)        | Bursidae    | 98              | Hon La        | 108.44516 | 15.96868  | 2017/5/10 | +          |
| <i>Bursa granularis</i><br>(Röding, 1798)         | Bursidae    | 139             | Bai Ong       | 108.50021 | 15.960193 | 2017/5/11 | +          |
| <i>Tutufa oyamai</i> Habe,<br>1973                | Bursidae    | 145             | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 | +          |
| <i>Lotoria lotoria</i><br>(Linnaeus, 1758)        | Cymatiidae  | 142             | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 | +          |
| <i>Bistolida ursellus</i><br>(Gmelin, 1791)       | Cypraeidae  | 104             | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 | +          |
| <i>Cypraea tigris</i><br>Linnaeus, 1758           | Cypraeidae  | 105             | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 | +          |
| <i>Erosaria erosa</i><br>(Linnaeus, 1758)         | Cypraeidae  | 106             | Hon La        | 108.44516 | 15.96868  | 2017/5/10 |            |
| <i>Erronea erronea</i><br>(Linnaeus, 1758)        | Cypraeidae  | 107             | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 | +          |
| <i>Luria isabella</i><br>(Linnaeus, 1758)         | Cypraeidae  | 110             | Bai<br>Huong  | 108.52849 | 15.930946 | 2017/5/10 | +          |



| SCIENTIFIC NAME                                     | Family       | Specimen number | Locality Name | Longitude | Latitude  | Date      | New Record |
|---|--------------|-----------------|---------------|-----------|-----------|-----------|------------|
| <i>Lyncina carneola</i><br>(Linnaeus, 1758)         | Cypraeidae   | 108             | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 | +          |
| <i>Lyncina lynx</i> (Linnaeus, 1758)                | Cypraeidae   | 109             | Bai Ong       | 108.50021 | 15.960193 | 2017/5/11 | +          |
| <i>Mauritia arabica</i><br>(Linnaeus, 1758)         | Cypraeidae   | 111             | Hon La        | 108.44516 | 15.96868  | 2017/5/10 |            |
| <i>Mauritia eglantina</i><br>(Duclos, 1833)         | Cypraeidae   | 112             | Hon La        | 108.44516 | 15.96868  | 2017/5/10 | +          |
| <i>Monetaria annulus</i><br>(Linnaeus, 1758)        | Cypraeidae   | 113             | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 | +          |
| <i>Monetaria caputserpentis</i><br>(Linnaeus, 1758) | Cypraeidae   | 114             | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 |            |
| <i>Monetaria moneta</i><br>(Linnaeus, 1758)         | Cypraeidae   | 115             | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 | +          |
| <i>Naria helvola</i><br>(Linnaeus, 1758)            | Cypraeidae   | 116             | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 |            |
| <i>Sabia conica</i><br>(Schumacher, 1817)           | Hipponicidae | 117             | Hon La        | 108.44516 | 15.96868  | 2017/5/10 | +          |
| <i>Echinolittorina cf. tricineta</i> Reid, 2007     | Littorinidae | 48              | Bai Ong       | 108.50021 | 15.960193 | 2017/5/11 | +          |
| <i>Echinolittorina pascua</i><br>(Rosewater, 1970)  | Littorinidae | 49              | Bai Bac       | 108.49052 | 15.96038  | 2017/5/12 | +          |
| <i>Littoraria undulata</i><br>(Gray, 1839)          | Littorinidae | 50              | Bai Huong     | 108.52849 | 15.930946 | 2017/5/10 | +          |
| <i>Mammilla mammata</i><br>(Röding, 1798)           | Naticidae    | 118             | Hon La        | 108.44516 | 15.96868  | 2017/5/10 | +          |
| <i>Distorsio reticularis</i><br>(Linnaeus, 1758)    | Personidae   | 119             | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 | +          |
| <i>Lotoria lotoria</i><br>(Linnaeus, 1758)          | Ranellidae   | 120             | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 | +          |
| <i>Euprotomus aratrum</i><br>(Röding, 1798)         | Strombidae   | 122             | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 | +          |
| <i>Lambis lambis</i><br>(Linnaeus, 1758)            | Strombidae   | 121             | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 |            |



| SCIENTIFIC NAME                               | Family          | Specimen number | Locality Name | Longitude | Latitude  | Date      | New Record |
|---|-----------------|-----------------|---------------|-----------|-----------|-----------|------------|
| <i>Tonna galea</i> (Linnaeus, 1758)           | Tonnidae        | 144             | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 | +          |
| <i>Tonna lischkeana</i> (Küster, 1857)        | Tonnidae        | 123             | Hon La        | 108.44516 | 15.96868  | 2017/5/10 | +          |
| <i>Babylonia areolata</i> (Link, 1807)        | Babyloniidae    | 56              | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 | +          |
| <i>Euplica scripta</i> (Lamarck, 1822)        | Columbellidae   | 57              | Bai Bac       | 108.49052 | 15.96038  | 2017/5/12 | +          |
| <i>Pyrene punctata</i> (Bruguère, 1789)       | Columbellidae   | 58              | Bai Huong     | 108.52849 | 15.930946 | 2017/5/10 | +          |
| <i>Conus betulinus</i> Linnaeus, 1758         | Conidae         | 140             | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 | +          |
| <i>Conus cinereus</i> Hwass in Bruguère, 1792 | Conidae         | 61              | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 | +          |
| <i>Conus coronatus</i> Gmelin, 1791           | Conidae         | 62              | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 | +          |
| <i>Conus ebraeus</i> Linnaeus, 1758           | Conidae         | 63              | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 | +          |
| <i>Conus flavidus</i> Lamarck, 1810           | Conidae         | 64              | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 | +          |
| <i>Conus lividus</i> Hwass in Bruguère, 1792  | Conidae         | 65              | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 |            |
| <i>Conus miles</i> Linnaeus, 1758             | Conidae         | 66              | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 | +          |
| <i>Conus nanus</i> G. B. Sowerby I, 1833      | Conidae         | 67              | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 | +          |
| <i>Conus quercinus</i> Lightfoot, 1786        | Conidae         | 68              | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 | +          |
| <i>Conus</i> sp.                              | Conidae         | 69              | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 | +          |
| <i>Vexillum taeniatum</i> (Lamarck, 1811)     | Costellariidae  | 60              | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 | +          |
| <i>Vexillum</i> sp.                           | Costellariidae  | 59              | Bai Huong     | 108.52849 | 15.930946 | 2017/5/10 | +          |
| <i>Latirus polygonus</i> (Gmelin, 1791)       | Fascioliariidae | 70              | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 |            |

| SCIENTIFIC NAME  | Family          | Specimen number | Locality Name | Longitude | Latitude  | Date      | New Record |
|--|-----------------|-----------------|---------------|-----------|-----------|-----------|------------|
| <i>Peristernia nassatula</i><br>(Lamarck, 1822)                            | Fascioliariidae | 71              | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 | +          |
| <i>Pleuroploca trapezium</i><br>(Linnaeus, 1758)                           | Fascioliariidae | 72              | Hon La        | 108.44516 | 15.96868  | 2017/5/10 | +          |
| <i>Strigatella scutulata</i><br>(Gmelin, 1791)                             | Mitridae        | 73              | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 | +          |
| <i>Chicoreus brunneus</i><br>(Link, 1807)                                  | Muricidae       | 74              | Bai Bac       | 108.49052 | 15.96038  | 2017/5/12 |            |
| <i>Chicoreus microphyllus</i><br>(Lamarck, 1816)                           | Muricidae       | 75              | Bai Ong       | 108.50021 | 15.960193 | 2017/5/11 | +          |
| <i>Coralliophila erosa</i><br>(Röding, 1798)                               | Muricidae       | 141             | Bai Ong       | 108.50021 | 15.960193 | 2017/5/11 | +          |
| <i>Coralliophila violacea</i><br>(Kiener, 1836)                            | Muricidae       | 76              | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 | +          |
| <i>Drupa morum</i> Röding,<br>1798   | Muricidae       | 77              | Bai Ong       | 108.50021 | 15.960193 | 2017/5/11 | +          |
| <i>Drupa ricinus</i><br>(Linnaeus, 1758)                                   | Muricidae       | 78              | Bai<br>Huong  | 108.52849 | 15.930946 | 2017/5/10 |            |
| <i>Drupa</i> sp.   | Muricidae       | 79              | Bai<br>Huong  | 108.52849 | 15.930946 | 2017/5/10 | +          |
| <i>Drupella margariticola</i><br>(Broderip in Broderip &<br>Sowerby, 1833) | Muricidae       | 80              | Bai Bac       | 108.49052 | 15.96038  | 2017/5/12 | +          |
| <i>Mancinella alouina</i><br>(Röding, 1798)                                | Muricidae       | 81              | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 |            |
| <i>Mancinella echinulata</i><br>(Lamarck, 1822)                            | Muricidae       | 82              | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 | +          |
| <i>Murex trapa</i> Röding,<br>1798   | Muricidae       | 83              | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 | +          |
| <i>Nassa francolina</i><br>(Bruguière, 1789)                               | Muricidae       | 84              | Hon La        | 108.44516 | 15.96868  | 2017/5/10 | +          |
| <i>Oppomorus<br/>purpureocinctus</i><br>(Preston, 1909                     | Muricidae       | 85              | Bai Ong       | 108.50021 | 15.960193 | 2017/5/11 | +          |



| SCIENTIFIC NAME                                | Family        | Specimen number | Locality Name | Longitude | Latitude  | Date      | New Record |
|--|---------------|-----------------|---------------|-----------|-----------|-----------|------------|
| <i>Oppomorus funiculatus</i><br>(Reeve, 1846)  | Muricidae     | 86              | Bai Bac       | 108.49052 | 15.96038  | 2017/5/12 | +          |
| <i>Purpura panama</i><br>(Röding, 1798)        | Muricidae     | 87              | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 | +          |
| <i>Rapana rapiformis</i><br>(Born, 1778)       | Muricidae     | 88              | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 | +          |
| <i>Reishia cf. bronni</i><br>(Dunker, 1860)    | Muricidae     | 89              | Hon La        | 108.44516 | 15.96868  | 2017/5/10 | +          |
| <i>Reishia cf. clavigera</i><br>(Küster, 1860) | Muricidae     | 90              | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 | +          |
| <i>Tenguella granulata</i><br>(Duclos, 1832)   | Muricidae     | 91              | Bai Ong       | 108.50021 | 15.960193 | 2017/5/11 | +          |
| <i>Tenguella musiva</i><br>(Kiener, 1835)      | Muricidae     | 92              | Bai Bac       | 108.49052 | 15.96038  | 2017/5/12 | +          |
| <i>Thais</i> sp.                               | Muricidae     | 93              | Bai<br>Huong  | 108.52849 | 15.930946 | 2017/5/10 | +          |
| <i>Tylothais virgata</i><br>(Dillwyn, 1817)    | Muricidae     | 94              | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 | +          |
| <i>Polia undosa</i><br>(Linnaeus, 1758)        | Pisaniidae    | 124             | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 |            |
| <i>Vasum turbinellus</i><br>(Linnaeus, 1758)   | Turbinellidae | 95              | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 |            |
| <i>Gemmula</i> sp.                             | Turridae      | 96              | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 | +          |
| <i>Melo melo</i> (Lightfoot,<br>1786)          | Volutidae     | 97              | Hon La        | 108.44516 | 15.96868  | 2017/5/10 | +          |
| <i>Herpetopoma instrictum</i><br>(Gould, 1849) | Chilodontidae | 125             | Hon La        | 108.44516 | 15.96868  | 2017/5/10 | +          |
| <i>Siphonaria</i> sp.                          | Siphonariidae | 126             | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 | +          |
| <i>Tectus pyramis</i> (Born,<br>1778)          | Tegulidae     | 127             | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 |            |
| <i>Tegula</i> sp.                              | Tegulidae     | 128             | Bai<br>Huong  | 108.52849 | 15.930946 | 2017/5/10 | +          |
| <i>Monodonta labio</i><br>(Linnaeus, 1758)     | Trochidae     | 129             | Bai Bac       | 108.49052 | 15.96038  | 2017/5/12 | +          |

| SCIENTIFIC NAME  | Family      | Specimen number | Locality Name | Longitude | Latitude  | Date      | New Record |
|--|-------------|-----------------|---------------|-----------|-----------|-----------|------------|
| <i>Trochus maculatus</i><br>Linnaeus, 1758                           | Trochidae   | 130             | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 |            |
| <i>Trochus stellatus</i><br>Gmelin, 1791                             | Trochidae   | 131             | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 | +          |
| <i>Umbonium vestiarium</i><br>(Linnaeus, 1758)                       | Trochidae   | 132             | Hon La        | 108.44516 | 15.96868  | 2017/5/10 | +          |
| <i>Turbo chrysostomus</i><br>Linnaeus, 1758                          | Turbinidae  | 133             | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 |            |
| <i>Turbo bruneus</i> (Röding,<br>1798)                               | Turbinidae  | 134             | Hon Dai       | 108.47814 | 15.94558  | 2017/5/10 | +          |
| <i>Cerithium punctatum</i><br>Bruguère, 1792                         | Cerithiidae | 99              | Bai Bac       | 108.49052 | 15.96038  | 2017/5/12 | +          |
| <i>Cerithium traillii</i> G. B.<br>Sowerby II, 1855                  | Cerithiidae | 100             | Bai Ong       | 108.50021 | 15.960193 | 2017/5/11 | +          |
| <i>Clypeomorus bifasciata</i><br>(G. B. Sowerby II, 1855)            | Cerithiidae | 101             | Hon La        | 108.44516 | 15.96868  | 2017/5/10 | +          |
| <i>Clypeomorus petrosa</i><br><i>chemnitziana</i> (Pilsbry,<br>1901) | Cerithiidae | 102             | Bai Ong       | 108.50021 | 15.960193 | 2017/5/11 | +          |
| <i>Rhinoclavis sinensis</i><br>(Gmelin, 1791)                        | Cerithiidae | 103             | Hon La        | 108.44516 | 15.96868  | 2017/5/10 | +          |
| <i>Lottia</i> sp.  | Lottiidae   | 135             | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 | +          |
| <i>Patelloida cf.</i><br><i>saccharina</i> (Linnaeus,<br>1758)       | Lottiidae   | 136             | Hon Tai       | 108.53193 | 15.90513  | 2017/5/10 | +          |
| <i>Cellana</i> sp.   | Nacellidae  | 137             | Bai<br>Huong  | 108.52849 | 15.930946 | 2017/5/10 |            |
| <i>Scutellastra flexuosa</i><br>(Quoy & Gaimard,<br>1834)            | Patellidae  | 138             | Hon La        | 108.44516 | 15.96868  | 2017/5/10 | +          |
| <i>Terebralia sulcata</i><br>(Born, 1778)                            | Potamididae | 53              | Bai<br>Huong  | 108.52849 | 15.930946 | 2017/5/10 | +          |



Temporal coverage

**Notes:** The field survey was conducted from 10-05-2017 through to 12-05-2017. The data were created from June 2017 until now. Some specimens could not be identified to the species level for the moment and the data will be updated in the future.

Collection data

**Collection name:** IEBR\_Molluscs

**Collection identifier:** Do Van Tu, Takenori Sasaki

**Parent collection identifier:** IEBR

**Specimen preservation method:** After being collected, the specimens were preserved in ethanol 95%.

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**IP rights notes:** This work is licensed under a Creative Commons Attribution (CC-BY) 4.0 License.

Data resources

**Data package title:** Checklist of marine mollusc in Cham Islands, Hoi An city, Quang Nam province, Vietnam

**Alternative identifiers:** Do Van Tu

**Number of data sets:** 1

**Data set name:** Checklist marine mollusc in Cham Islands

**Data format:** Darwin Core

**Description:** The checklist is based on identifying the collected specimens to the species level where possible.

| Column label    | Column description  |
|-----------------|---|
| SCIENTIFIC_NAME | Complete scientific name including author and year  |
| Specimen_number | The code of the sample is used for identifying the sample from which the record is derived. We also considered the specimen number as the voucher number. |

|                |   |
|----------------|---|
| Locality_Name  | Name of locality where the sample was collected                         |
| Longitude      | The geographic longitude (in decimal degrees)                           |
| Latitude       | The geographic latitude (in decimal degrees)                            |
| Collected_Date | DDMMYY  |
| Family         | The full scientific name of the family in which the taxon is classified |
| New_Record     | New record for the Cham Islands   |

## Acknowledgements

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## Author contributions

- Do Van Tu, Le Hung Anh, Luu The Anh contributed to collecting the specimens in the field survey. Do Van Tu responsibility for data management.
- Tran Anh Tuan contributed to drawing the map.
- Takenori Sasaki verified the identification of the species.
- Do Van Tu wrote the first version of the manuscript.
- All authors contributed to revising the manuscript.

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## Supplementary materials

### Suppl. material 1: The list of Bivalvia and Gastropod recorded in Cham Island in May 2017 [doi](#)

**Authors:** Do Van Tu, Takenori Sasaki, Le Hung Anh, Luu The Anh, Tran Anh Tuan

**Data type:** Occurrences

**Brief description:** The complete table of table 1

**Filename:** Supplementary material 2.csv - [Download file](#) (33.83 kb)

### Suppl. material 2: Some photos of the species collected from Cham Islands, Vietnam, in May 2017 [doi](#)

**Authors:** Do Van Tu, Le Hung Anh, Luu The Anh, Takenori Sasaki, Tran Anh Tua

**Data type:** PFD file

**Brief description:** The file contains the photos of 40 species of Bivalvia and Gastropoda collected from Cham Islands

**Filename:** Fig\_some\_species.pdf - [Download file](#) (2.60 MB)